302.1 - Microindentation Hardness (block form)

These SRMs are for use in calibrating and checking the performance of microhardness testers and may be used in conjunction with ASTM E 384. SRMs 1893 through 1907 are 1.25 cm × 1.25 cm (SRM 2798 is 1.35 cm× 1.35 cm) and were made by electroforming the test metal on AISI 1010 steel substrate. SRMs 2830 and 2831 are intended to meet the needs of the structural, electronic and biomedical ceramics communities.

Technical Contact: david.kelley@nist.gov and george.quinn@nist.gov

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit of Issue	Load (Newtons)	Hardness, nominal (kgf/mm²)
1893	Microhardness, Cu-Knoop	each	0.245, 0.490, 0.981	125
1894a	Microhardness Cu-Vickers	each	0.245, 0.490, 0.981 ?	125
1895	Microhardness, Ni-Knoop	each	0.245, 0.490, 0.981 ?	600
1896b	Microhardness Ni-Vickers	each	0.245, 0.490, 0.981 ?	600
1905	Microhardness, Ni-Knoop	each	2.943	600
1906	Microhardness, Ni-Knoop	each	4.905	600
1907	Microhardness, Ni-Knoop	each	9.81	600
1908	Vickers Microhardness of Nickel	each	2.943	600
1909	Vickers Microhardness of Nickel	each	9.81	600
2798a	Vickers Microhardness of Nickel	each	4.905	600
2830	Microhardness, Ceramic-Knoop	each	19.6	1500
2831	Vickers Hardness, Ceramics and Hardmetals	each	9.8	1530